



**PATENT**  
5957-48401

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/654,619

§ Examiner: Unknown  
§ Group/Art Unit: 2816  
§ Atty. Dkt. No.: 5957-48401

Inventor:

Amit Lewin, Eytan Mann, Yackov Sfadya, and Yuri Poddobny

Title: System for transporting Ethernet frames over very high speed digital subscriber lines.

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

Lawrence J. Merkel

**Printed Name**

June 28, 2006

~~Signature~~

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicant requests consideration of  the references listed on the attached Form PTO-1449 and/or  the additional information identified below in paragraph 3.

- Pursuant to CFR §1.98(a)(2)(i), copies of the cited U.S. patents and/or U.S. patent application publications are not enclosed.
- A copy of each non-U.S. patent and/or non-U.S. patent application publication reference listed on the Form PTO-1449 is enclosed.
- The non-U.S. patent and/or non-U.S. patent application publication references listed on the Form PTO-1449, that aren't enclosed (A36-A41) were previously cited in application serial no. 09/315,215 to which the captioned application is seeking priority under 35 U.S.C. §120; therefore, a copy of each reference is not enclosed.

1. This Information Disclosure Statement is submitted:

- a.  within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);  
 within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;  
 before the mailing date of a first Office Action on the merits; or  
 before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.
- b.  after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus:  the certification of paragraph 2 below is provided, or  a fee of \$180.00 is enclosed.
- c.  after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.

2. It is hereby certified:

- that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in § 1.56(c) more than thirty (30) days prior to the filing of the information disclosure statement;
- that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of the Statement; or
- that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three (3) months prior to the filing of the Statement.

3.  Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:

U.S. Application Serial No. 10/430,480 (5957-48501)

4. For each non-English language reference listed on the attached Form PTO-1449:

- reference is made to an English language translation submitted herewith, and/or
- reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or

- reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
- reference is made to the concise explanation contained in the specification of the present application at page(s) \_\_\_\_\_, and/or
- reference is made to the concise explanation set forth below:

5.  Applicant also offers the following comments for the Examiner's consideration:

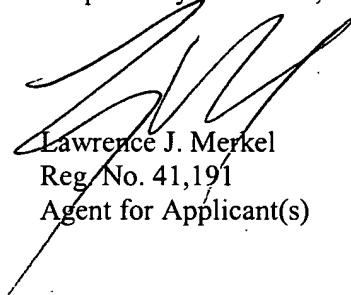
6.  Also enclosed is a copy of a foreign search report citing these references.

7.  The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.

8.  Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

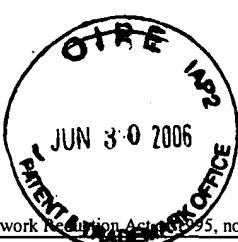
If any required fees are missing, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/5957-48401/LJM.

Respectfully submitted,



Lawrence J. Merkel  
Reg. No. 41,191  
Agent for Applicant(s)

MEYERTONS, HOOD, KIVLIN,  
KOWERT & GOETZEL, P.C.  
P. O. Box 398  
Austin, Texas 78767  
(512) 853-8800  
Date: June 28, 2006



JUN 30 2006

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO Modified		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number	10/654,619
		Confirmation No.:	4999
		Filing Date:	September 3, 2003
		First Named Inventor:	Amit Lewin
		Art Unit:	2816
		Examiner Name:	Unknown
		Attorney Docket Number:	5957-48401

Sheet 1 of 4

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-5,410,343	4/95	Coddington, et al.	
		US-5,778,189	7/98	Kimura, et al.	
		US-5,784,683	7/98	Sistanizadeh, et al.	
		US-5,790,548	8/98	Sistanizadeh, et al.	
		US-5,812,786	9/98	Seazholtz, et al.	
		US-5,905,781	5/99	McHale, et al.	
		US-5,909,564	6/99	Alexander, et al.	
		US-5,978,373	11/99	Hoff, et al.	
		US-5,991,308	11/99	Fuhrmann, et al.	
		US-5,999,565	12/99	Locklear, Jr., et al.	
		US-6,055,297	4/00	Terry	
		US-6,084,881	7/00	Fosmark, et al.	
		US-6,088,368	7/00	Rubinstain, et al.	
		US-6,101,182	8/00	Sistanizadeh, et al.	
		US-6,104,749	8/00	Lu, et al.	
		US-6,157,635	12/00	Wang, et al.	
		US-6,178,161	1/01	Terry	
		US-6,236,664	5/01	Erreygers	
		US-6,289,049	9/01	Rajakarunanayake, et al.	
		US-6,339,613	1/02	Terry	
		US-6,351,487	2/02	Lu, et al.	
		US-6,363,128	3/02	Isaksson, et al.	
		US-6,374,288	4/02	Bhagavath, et al.	
		US-6,404,861	6/02	Cohen, et al.	
		US-6,424,657	7/02	Voit, et al.	
		US-6,608,834	8/19/03	Lewin, et al.	
		US-6,680,940	1/20/04	Lewin, et al.	
		US-			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application. <sup>1</sup>Applicant's unique citation designation number (optional).

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO Modified		<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number	10/654,619
		Confirmation No.:	4999
		Filing Date:	September 3, 2003
		First Named Inventor:	Amit Lewin
		Art Unit:	2816
		Examiner Name:	Unknown
		Attorney Docket Number:	5957-48401
Sheet 2 of 4			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code-Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	Check if English Translation is attached
		EP 1206109	5/02			<input type="checkbox"/>
						<input type="checkbox"/>

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, (page(s), volume-issue number(s), publisher, city and/or country where published.)				Check if English Translation is attached
	A1	<i>Bypassing the Home Computing Bottleneck: The Suburban Area Network</i> , Kopp, Carlo, Pose, Ronald Department of Computer Science, Monash University, Clayton Victoria, 3168, Australia				<input type="checkbox"/>
	A2	<i>Multiprotocol Encapsulation over ATM Adaptation Layer 5</i> Heinanen, Network Working Group Telcom Finland				<input type="checkbox"/>
	A3	<i>Towards the Intelligent On-Line Home Office</i> Antoniazzi, Pampolini, OCEANS, Customer Equipment & Network Lab. Italtel Spa				<input type="checkbox"/>
	A4	<i>FDDI Lan Bridging Schemes</i> Shani, References: (1) ISO 8802-2 – IEEE 802.2 Logical Link Control, 1989-12-3, (2) ISO 8802-3 IEEE 802.3 Carrier Sense Multiple Access with Collision Detection. (3)RFC 1122 A Proposed Standard for the Transmission of IP datagrams over FDDI Networks, Katz, June 1989 (4) Getting More FiBer, Callahan, LAN Magazine July 1990				<input type="checkbox"/>
	A5	<i>ADSL: Moving toward low-cost access to the information highway</i> Olshansky, Telephony; Nov 7, 1994; 227, 19; ABI/INFORM Global				<input type="checkbox"/>
	A6	<i>Killer Applications for the WEBAmericas Edition</i> , Telecommunications June 1996				<input type="checkbox"/>
	A7	<i>Sourcecom bets its money on BANC</i> Bucholtz, Chris Telephony; Sept 9, 1996, 231, 11 ABI/INFORM Trade & Industry				<input type="checkbox"/>
	A8	<i>Sourcecom rolls central-office mux for DSL</i> Wirbel, Electronic Engineering Times Sept 16, 1996; 919; ABI/INFORM Trade & Industry				<input type="checkbox"/>
	A9	<i>Carriers Drive ATM Home over ADSL</i> Green, Network World, Oct 14, 1996; 13, 42; ABI/INFORM Trade & Industry				<input type="checkbox"/>
	A10	<i>Carrier Strategies for DSL</i> Flanagan, Americas Edition, Telecommunications, December 1996				<input type="checkbox"/>
	A11	<i>ADSL looks to advances in chip design</i> Issa, Electronic Engineering Times; Jan 20, 1997; 937; ABI/INFORM Trade & Industry				<input type="checkbox"/>

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application. <sup>1</sup>Applicant's unique citation designation number (optional).

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO Modified	Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)</b>	Application Number	10/654,619
Sheet 3 of 4	Confirmation No.:	4999
	Filing Date:	September 3, 2003
	First Named Inventor:	Amit Lewin
	Art Unit:	2816
	Examiner Name:	Unknown
	Attorney Docket Number:	5957-48401

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, (page(s), volume-issue number(s), publisher, city and/or country where published.)	Check if English Translation is attached
	A12	<i>Central Office Architectures Collide at ComNet</i> Wirbel, Electronic Engineering Times; Feb 10, 1997; 940; ABI/INFORM Trade & Industry	<input type="checkbox"/>
	A13	<i>Hybrid 56K/ADSL Modem Boasts Rock-Bottom Price</i> Green, Network World; Feb 17, 1997; Vol. 14, No 7; ABI/INFORM Trade & Industry	<input type="checkbox"/>
	A14	<i>Rethinking ISDN</i> McCarthy, Telephony: April 21, 1997; 232, 16; ABI/INFORM Trade & Industry	<input type="checkbox"/>
	A15	<i>Framing and Encapsulation Standards for ADSL: Packet Mode</i> ADSL Forum, TR-003 V1.0 June 1997	<input type="checkbox"/>
	A16	<i>3Com puts new spin on DSL access</i> Green, Network World; Sept 8, 1997 ABI/INFORM Trade & Industry	<input type="checkbox"/>
	A17	<i>DSL: Stuck in the Slow Lane</i> , Brown, Network World; Nov 3, 1997; 14, 44; ABI/INFORM Global	<input type="checkbox"/>
	A18	<i>Technical Report, TR-004: Network Migration</i> , ADSL Forum, Young, December 1997	<input type="checkbox"/>
	A19	<i>1998 Could be Watershed Year for DSL</i> , Nobel, Berinato PCWEEK, December 8, 1997 Vol. 14, No 51	<input type="checkbox"/>
	A20	<i>Broadbandloop: A Full-Service Access Network for Residential and Small Business Users</i> . Andersen, Nordeste, Duarte, Lassen, Anders, Bach, Amborski, Dittmann, IEEE Communications Magazine, December 1997	<input type="checkbox"/>
	A21	<i>Modelling and Design of TCP/IP Based Services Over ADSL And ATM</i> Grotz, Cope, Telecommunications 1998, 29 March – 1 April 1998, Conference Publication No. 451, © IEE 1998 ©	<input type="checkbox"/>
	A22	<i>WAN virtual sensation</i> , Waldfogel, Telephony: May 18, 1998; 234, 20' ABI/INFORM Trade & Industry	<input type="checkbox"/>
	A23	<i>Network Architectures in Support of Digital Subscriber Line (DSL) Deployment</i> Peuch, Paradyne, Region VP Europe Zurich, Switzerland, May 18 – 12 1998	<input type="checkbox"/>
	A24	<i>Cisco Spells DSL with Four New CPE Products</i> Duffy, Network world; June 1, 1998; 15, 22; ABI/INFORM Trade & Industry	<input type="checkbox"/>
	A25	<i>Achieving global consensus on the strategic broadband access network – the Full service Access Network initiative</i> . Quayle, Bissell, Clarke, Fisher, Mistry, North, Stern, Thorne BT Technology Journal Vol. 16, No 4 October 1998	<input type="checkbox"/>
	A26	<i>Multimedia Systems and Applications</i> Tescher, Vasudev, Bove, Derryberry November 2-4 1998	<input type="checkbox"/>

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application. <sup>1</sup>Applicant's unique citation designation number (optional).

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO Modified		Complete if Known	
<b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		Application Number	10/654,619
		Confirmation No.:	4999
		Filing Date:	September 3, 2003
		First Named Inventor:	Amit Lewin
		Art Unit:	2816
		Examiner Name:	Unknown
		Attorney Docket Number:	5957-48401
Sheet 4 of 4			

	A27	<i>DSL: Performance under Pressure</i> , Network World Brass, Nov 16, 1998; 15, 46; ABI/INFORM Trade & Industry	<input type="checkbox"/>
	A28	<i>Fujitsu hits DSL markets with E'net bridging focus</i> Wirbel, Electronic Engineering Times; Dec 21, 1998; 1040; ABI/INFORM Trade & Industry	<input type="checkbox"/>
	A29	<i>A Solution for Midband</i> , Dickie, Mackenzie, BT Technology Journal Vol. 16, No 4, October 1998	<input type="checkbox"/>
	A30	<i>Sharing the Wealth</i> , Harler, Lindstrom, America's Network Oct 1, 1998; 102, 19 ABI/INFORM Trade & Industry	<input type="checkbox"/>
	A31	<i>Realising the potential of access networks using DSL</i> , Foster, Young, Cook, Clarke, Kirby, Booth BT Technology Journal, Vol. 16, No. 4, 1998	<input type="checkbox"/>
	A32	<i>Remote Access Networks PSTN, ISDN, ADSL, Internet, and Wireless</i> , Dhawan, McGraw-Hill ©1998	<input type="checkbox"/>
	A33	<i>DSL Service Selection Methods</i> , Sampson, Americas Edition, Telecommunications, July 1999 <a href="http://www.telecommagazine.com">www.telecommagazine.com</a>	<input type="checkbox"/>
	A34	<i>ADSL Standards, Implementation, and Architecture</i> , Summers, The CRC Press Advanced and Emerging Technologies Series 1999	<input type="checkbox"/>
	A35	<i>Broadband Access Technologies: ADSL/VDSL, Cable Modems, Fiber, LMDS</i> , Azzam, Ransom, Copyright 1999 by The McGraw Hill companies, Inc., pp 134 – 169	<input type="checkbox"/>
	A36	“MPC 860 PowerQUICC™,” User’s Manual, Chapter 24, Motorola Corp., July 1998.	<input type="checkbox"/>
	A37	“Technical Report TR-003, Framing and Encapsulation Standards for ADSL: Packet Mode,” June 1997, 17 pages.	<input type="checkbox"/>
	A38	“RFC 1662, PPP in HDLC-Like Framing,” July 1994, pp. 1-23.	<input type="checkbox"/>
	A39	Taylor, “Internetworking Handbook,” 1998, McGraw Hill, Second Edition, p. 697.	<input type="checkbox"/>
	A40	Broadcom Product Brief, “BCM5203 Overview, Broadcom Corporation, Irvine, CA, 1998, 2 pages.	<input type="checkbox"/>
	A41	“VDSL Draft Specification ANSI,” T1E1.4 Subcommittee, American National Standards Institute, Huntsville, AL, June 1998, 4 pages.	<input type="checkbox"/>

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application. <sup>1</sup>Applicant's unique citation designation number (optional).